





Integration of Physical Activity in Reablement for Community Dwelling Older Adults: A Systematic Scoping Review

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Background: Reablement is a rehabilitative intervention provided to homecare receivers with the aim of improving function and independence. There is limited evidence of the effectiveness of reablement, and the content of these interventions is variable. Physical activity (PA) is known to be important for improving and maintaining function among older adults, but it is unclear how PA is integrated in reablement.

Purpose: To map existing evidence of how PA strategies are integrated and explored in studies of reablement for community dwelling older adults and to identify knowledge gaps.

Methods: An a priori protocol was published. Studies of time-limited, interdisciplinary reablement for community-dwelling older adults were considered for inclusion. Eight databases were searched for studies published between 1996 and June 2020, in addition to reference and citation searches. Study selection and data extraction were made independently by two reviewers.

Results: Fifty-one studies were included. Exercise strategies and practice of daily activities were included in the majority of intervention studies, but, in most cases, little information was provided about the intensity of PA. Interventions aiming to increase general PA levels or reduce sedentary behavior were rarely described. None of the studies explored older adults', healthcare providers' or family members' experiences with PA in a reablement setting, but some of the studies touched upon themes related to PA experiences. Some studies reported outcomes of physical fitness, including mobility, strength, and balance, but there was insufficient evidence for any synthesis of these results. None of the studies reported PA levels among older adults receiving reablement.

Conclusion: There is limited evidence of how PA is integrated and targeted to older adults' individual needs and preferences in a reablement setting. The feasibility and effectiveness of PA interventions, as well as experiences or barriers related to PA in a reablement setting, should be further investigated.

Keywords: rehabilitation, exercise therapy, health services for the aged, aged, 80 and over, physical fitness, health personnel

Introduction

Reablement is an interdisciplinary practice introduced in homecare services during the last two decades. The aim of reablement is to provide homecare services that help people (mostly older adults >65 years) regain function and independence, rather than continuing to increase services to compensate for ongoing functional loss.¹⁻⁴ Different terms have been used for reablement such as everyday rehabilitation and restorative care. For the purpose of this study, the term reablement will be used and is

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defined as rehabilitative initiatives that aim to maximize functional ability and independence among homecare service users, by offering intensive, time-limited, interdisciplinary, person-centered, and goal-directed homecare services.⁴ A common feature of reablement is that the services are person-centered, with an emphasis on identifying and working towards the participants' own prioritized goals.⁴ Different types of healthcare personnel (HCPs) are typically involved in reablement, including healthcare professionals (with a bachelor degree) such as occupational therapists (OTs), physical therapists (PTs), registered nurses (RNs), and also allied healthcare personnel (without a bachelor degree), eg, nurse assistants, students, or community healthcare workers.⁵

Reablement seems to meet political healthcare priorities by introducing innovative and sustainable initiatives that may improve functional ability and well-being in older age.⁶ However, the evidence-base supporting reablement is still limited. Several recent systematic reviews have investigated different perspectives of the effectiveness of reablement.^{1–5,7} Although some promising implications are reported,^{2,7} there is limited evidence of the effect of reablement for improving function and independence compared to standard home care.^{13–5} The specific characteristics of reablement provided in the included intervention studies are reported to be poorly described, and little is known about the effect of individual components included in reablement practice.^{3,4,7} The focus of this review was to map evidence on how physical activity (PA) is integrated in reablement, as PA is considered an important factor for improving and maintaining older adults' physical function.⁸

For the purpose of this study, physical activity was defined in accordance with the definition used by WHO as “any bodily movement produced by skeletal muscles that requires energy expenditure”.⁹ This includes different activities, such as leisure time PA, transportation, occupational activity, household activity, games, sports, everyday activities, and exercise. Within this broad definition of PA, the focus of this study was on general PA facilitation and also exercise strategies and prevention of sedentary behavior. Exercise was defined as

physical activity that is planned, structured, repetitive, and purposive in the sense that improvement or maintenance of one or more components of physical fitness is an objective.¹⁰

Sedentary behavior was defined as “any waking behavior characterized by low energy expenditure [...] while in a sitting, reclining, or lying posture”.¹¹

Inactivity among older adults affects their physical fitness (eg, cardiorespiratory and muscular endurance, muscular strength, flexibility, balance, mobility, or speed of movement), and is correlated to frailty and functional limitations.¹² Research demonstrates the positive effects of regular PA and exercise for older adults such as reduced risk of falling,¹³ reduced level of frailty,¹⁴ and improved performance in ADLs.¹⁵ WHO recommend older adults be physically active for at least 150 minutes a week, including activities that are adapted to the individuals' functional level.⁸ They also recommend activities that enhance muscle-strength and balance be included at least twice a week.

However, there are many factors that are perceived by older adults as barriers to being physically active.^{16,17} It is recommended that HCPs pay special attention to inform older adults about the health benefits of PA and that they consider the persons' personal, social, and environmental constraints for being physically active.^{16,18} Furthermore, it has been suggested that more attention be directed to real-life contexts of PA interventions among community-dwelling older adults.¹⁹

PA or exercise strategies are reported as part of the reablement intervention in some systematic reviews of reablement published over the last few years,^{2,4,5,7} but no further characteristics of these strategies are provided. No identified systematic review mentions strategies aimed at reducing sedentary behavior among participants.^{1–5,7} It was anticipated that experimental, quantitative, and qualitative study designs would provide evidence relevant to the objective of this scoping review and the intention was, therefore, to include a broader range of study designs than previously included in systematic reviews of reablement. A scoping review was considered appropriate in order to identify and map different types of evidence related to PA in reablement.

The objective of this systematic scoping review was to identify and map existing evidence of how PA strategies are integrated and explored in studies of reablement for community dwelling older adults and also to identify knowledge gaps that are important for further research.

More specific, the questions of this review were:

- To what extent have PA strategies been used in reablement for older adults and what are the reported characteristics of these strategies?

- What evidence regarding experiences (of older adults, HCPs and family members) and barriers related to PA facilitation in a reablement setting can be identified?
- What is the scope of assessment methods used in relation to reablement that can inform about older adults' (changes in) PA behavior and physical fitness?

Methods

We used a systematic scoping review method following recommendations from the Joanna Briggs Institute.^{20,21} The study was reported based on the Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR).²² A protocol was published prior to the review.²³

Eligibility Criteria

Types of Participants

To be included, the studies had to focus on older adults aged 65 years and over that were in receipt of reablement services. Studies focusing on HCPs working with reablement and family members of reablement participants were included. Studies focusing on people requiring end-of-life care were excluded.

Concept

Studies that investigated or explored the concept of reablement were included. The reablement intervention had to be delivered by several types of HCPs (involving at least two disciplines of healthcare professionals or one discipline in addition to allied healthcare personnel), aiming to improve functional ability and be person-centered (ie, targeted to the participants' individual goals). Studies investigating reablement with no time-restriction or a duration of more than 6 months were excluded. Studies focusing on home rehabilitation targeting people with one particular diagnosis (eg, heart failure, hip fractures, stroke, osteoarthritis) were also excluded. These particular criteria were not specified in the protocol, but were considered necessary in order to separate similar interventions that would not be considered reablement due to their specialized diagnostic focus. The criteria were decided upon prior to the selection process and used consistently throughout the selection. Studies were included regardless of whether or not they reported any information related to PA, since it was an aim to map both the existence of, and

the absence of information related to PA in reablement studies.

Context

To be included, the reablement intervention had to be provided by homecare services (eg, managed by local government or not-for-profit agencies) in the participants' home (including a variety of housing arrangements) or local environment. Studies focusing on reablement interventions provided in long-term care facilities/nursing homes or housing arrangements with 24-hour care were excluded. Studies investigating reablement in relation to transition from a hospital setting were included if they met all other eligibility criteria. There were no restrictions regarding country of origin of the studies.

Types of Sources

This review included original peer-reviewed scientific studies with different designs, including (but not limited to) intervention studies (eg, Randomized Controlled Trials (RCTs), controlled trials, case control studies), qualitative studies, quantitative research, and mixed method research. Reviews, cost-effectiveness studies, and study protocols were excluded. Text (eg, political documents or government recommendations) and opinion papers were also excluded. Studies published in English, Norwegian, Danish, Swedish, and German were considered for inclusion. Reablement is a relatively young intervention with the majority of studies being published in the 2000s.^{1,2,4,5,24} Given the search by Cochrane et al⁴ had no date restrictions yet found few studies (ie, only those in the 2000s), we decided, like Ryburn et al,²⁴ to only include studies published in 1996 or later.

Search Strategy

Firstly, an initial limited search in PubMed and CINAHL was undertaken to identify relevant key words and search terms used in titles and abstracts in studies published within the field. Secondly, based on search terms identified in this initial search, a search strategy was developed with assistance from a librarian. PubMed, Cochrane central register of controlled trials, Embase, PsycINFO, AMED, PEDro, CINAHL, and Google Scholar were all searched from 1996 to June 2020, with the latest update of the search being made on June 19, 2020. Although we initially intended to search for grey literature, we decided to only include peer-reviewed published studies, since there are no specific recommendations for inclusion of grey literature

in scoping reviews.²⁰ Therefore, we did not find it necessary to search ProQuest as reported in the protocol. The search strategy for PubMed is presented in [Supplementary file 1](#) and includes search terms related to participants (aged/older adults) and concept (reablement). We did not include search terms related to context, to avoid narrowing the search and risk missing studies that did not explicitly describe the context. Relevant MeSH terms and headings were identified and used where required. Only English search terms were used in the search strategy. The language changed slightly depending on the database, however the main key words were used throughout. Thirdly, the reference lists of included studies were searched and a citation search of included studies was performed through Google Scholar in order to identify eligible studies that had not been identified through the previous search strategy.

Study Selection

After removing duplicates, two reviewers (HLM, CFM) independently performed screening of titles and abstracts and excluded studies not meeting the inclusion criteria. The remaining studies were retrieved in full-text and further evaluated for eligibility independently by two reviewers (HLM, CFM). Disagreements were solved by discussion or by involving a third reviewer for consensus (LU or EB). The authors of 24 studies were contacted for additional information related to our inclusion criteria (this information is specified in the result Tables). Rayyan²⁵ and End Note X8 (Thomson Reuters, 2017) were used to manage records and data throughout the selection process.

Data Charting Process

Data charting forms were developed by the whole research team (HLM, CFM, EB, and LU) and piloted by two reviewers (HLM and CFM) prior to data extraction. Data extraction was made independently by HLM and CFM and then compared in order to reduce errors.

Extracted data included information about author, year, country, aim, study design/method, intervention and comparative intervention (if applicable), duration of intervention, HCPs involved, characteristics of reablement receivers, including age distribution if provided, sample size/informants. The following specific information related to the scoping review questions was extracted: Characteristics of general PA facilitation, exercise characteristics, experiences related to PA (by older adults, HCPs, or family members), and information of assessment of

physical fitness and assessment of PA levels. An additional data extraction was made by HLM to identify PA-related terms used in each study.

Data mapping and summarization was conducted by one reviewer (HLM) in cooperation with the rest of the review team. For the second scoping question (experiences and barriers related to PA), meaningful units of text from the studies were extracted, condensed and systematized in an additional Excel spreadsheet. The findings were mapped and summarized and presented in text and tables.

Results

After screening 2527 unique records, of which 248 were examined in full-text, 51 articles met our eligibility criteria and served as the overall data material for the scoping review (illustrated in [Figure 1](#), Prisma Flow Diagram). Among these studies were 15 intervention studies, including seven RCTs,^{26–32} five non-randomized controlled trials,^{33–37} and three non-controlled pre-post studies,^{38–40} in addition to one RCT long-term follow-up study,⁴¹ four studies with mixed design/other,^{42–45} four studies based on quantitative research,^{46–49} and 27 qualitative studies, of which 18 focused on HCPs' perspectives,^{50–66} seven on older adults' perspectives^{67–73} and two on family members perspectives.^{74,75}

In most of the included studies, the terms reablement or restorative care were used (n=47). However, four of the studies that met our inclusion criteria did use other intervention terms including “homecare rehabilitation service specially trained in falls identification”,³⁷ “supported discharge team”,²⁸ “everyday rehabilitation”,⁶³ and “rehabilitative eldercare/homecare”.⁶² Different groups of HCPs were represented in the interdisciplinary teams involved in the studies, including OTs (49 studies), PTs (42 studies), RNs (14 studies), or nurses (28 studies), allied healthcare personnel (46 studies), and social educators/managers (seven studies). The duration of reablement interventions varied between studies from 6 weeks or less (24 studies), 7 weeks–3 months (25 studies) or more than 3 months (two studies).

All of the included studies served as the collective data material for investigating if and how PA was described and explored in reablement research. Intervention studies are presented in [Table 1](#), and studies that provided additional information about PA characteristics or provided information about PA experiences or barriers are presented in [Table 2](#). Further information and study details of all included studies is presented in [Supplementary file 2](#).

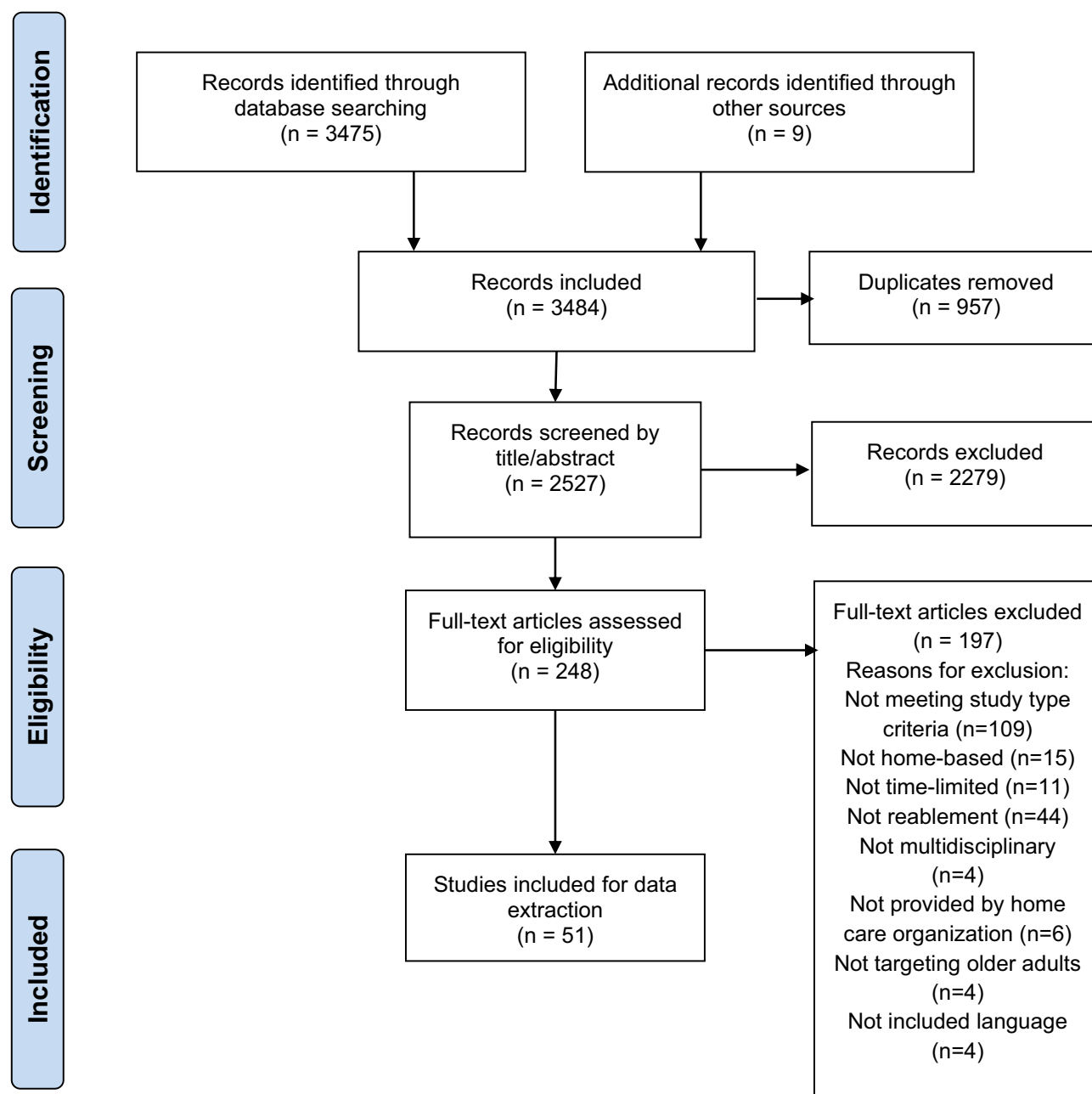


Figure 1 Prisma Flow diagram. (Adapted with permission from the PRISMA Group) Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed1000097. The PRISMA Statement and the PRISMA Explanation and Elaboration document are distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. (<http://prisma-statement.org/PRISMAStatement/CitingAndUsingPRISMA.aspx>).⁷⁶

Q1: Extensiveness and Characteristics of Physical Activity Strategies in Reablement Characteristics of General PA Interventions

Five Australian studies aimed to specifically investigate PA-related inquiries in a reablement setting.^{26,41–43,46} In one of these studies, PA/Exercise interventions were described in detail, including intensity of the intervention,²⁶ and two of the studies referred to government recommendations of PA in

the background of the studies.^{42,43} Additionally, one Japanese RCT study reported including motivational interviews with the aim of assessing and encouraging physical activity (as one of several focuses of the interviews).³¹ With the exception of these studies, the term physical activity was rarely mentioned in other studies. Instead, a range of terms that were likely to involve some degree of PA were used, such as training, training in daily activities, practicing ADL-

Table 1 Intervention Studies with PA Characteristics and Assessment Methods for Physical Fitness and PA Levels

Author, Year, Country	Design	Intervention	Control Intervention	Duration of Intervention	HCPs	Sample Size (Each Group)	Characteristics of General PA Facilitation	Exercise Characteristics	Assessment of Physical Fitness	Assessment of PA Levels
Intervention studies – RCTs (n=8)										
Burton et al, ³⁰ 2013, Australia	Parallel pragmatic RCT	Restorative care + LIFE (lifestyle functional exercise program)	Restorative care + standard exercise program	8 weeks	OTs PTs RNs Aides	80 (40, 40)	Include promotion of active engagement in activities of daily living.	Yes. Detailed descriptions provided (elaborated in text)	Functional reach Sit-to stand TUG Tandem walk	Exercise diary
Burton et al, ⁴⁵ 2014, Australia	Pragmatic RCT long-term follow-up	Restorative care + LIFE (lifestyle exercise program)	Restorative care + standard exercise program	8 weeks	OTs PTs RNs Aides	80 (40, 40)	Refers to Burton 2013	Same as Burton 2013	Same as Burton 2013	Exercise diary
Tuntland et al, ³³ 2015, Norway	Parallel-group superiority RCT	Reablement	Usual care	Max 3 months (average: 10 weeks)	OT PT Nurses Auxiliary nurses Assistants/students Social educator	61 (31,30)	Training in daily activities such as dressing, food preparation, vacuuming, bus transport, visiting friends at a club, or being able to knit	Exercise programs were recommended as individual features, such as indoor or outdoor walking with or without walking aids, climbing stairs, transferring and performing exercises to improve strength, balance, or fine motor skills	TUG Grip strength	No
Lewin et al, ³¹ 2013, Australia	RCT	HIP (the home independence program). A restorative home-care program	Usual home care	Max 12 weeks	RNs OTs PTs Support workers*	750 (375, 375)	Promotion of active engagement in daily activities	Strength, balance, and endurance programs for improving or maintaining mobility	TUG (results for TUG not reported)	No

Whitehead et al, ³⁴ 2016, UK	Feasibility parallel group RCT	Reablement + OT intervention	Reablement	6 weeks ±	Social care workers Reablement team leader OT	30 (15/15)	Practicing ADL-activities was part of the intervention	Not reported	No	No
Parsons et al, ³² 2018, New Zealand	RCT	Supported discharge team	Usual care	Max 6 weeks	Healthcare assistants Registered nurses PTs OTs Geriatrician	183 (97.86)	Utilize functional rehabilitation principles to maximize recovery through incorporating exercises within ADL tasks	Exercises progressively incorporated within ADL tasks	No	No
Hattori et al, ³⁵ 2019, Japan	Parallel, two-arm superiority RCT	Reablement + Usual care	Usual care	5 months	PTs OTs Care managers	375 (190/185)	Encouraged to regain physical activities and participation in ADL/IADL, based on motivational interviewing. Aimed to improve body function, activities and participation (ICF)	(See characteristics of general PA facilitation)	No	No
Jeon et al, ³⁶ 2019, Australia	Parallel-group pilot RCT + interviews	I-HARP (Interdisciplinary Home-bAsed Reablement Program)	Usual care	4 months (up to 12 visits by HCPs)	OTs RNs Neuropsychologist.	18 (9/9)	Not reported	Balance and strength exercises were included as needed	No	No
Intervention studies – Not RCTs (n=8)										
Lewin et al, ³⁸ 2010, Australia	Non-randomized controlled trial	HIP (the home independence program). A restorative home-care program	Usual care	Up to 12 weeks. Average 62 days	Nurses PTs OTs	200 (100/100)	Interventions included promotion of active engagement in a range of daily living activities	Interventions included strength, balance, and endurance programs for improving or maintaining mobility	TUG	No

(Continued)

Table 1 (Continued).

Author, Year, Country	Design	Intervention	Control Intervention	Duration of Intervention	HCPs	Sample Size (Each Group)	Characteristics of General PA Facilitation	Exercise Characteristics	Assessment of Physical Fitness	Assessment of PA Levels
Whitney et al, ⁴¹ 2015, US	Retrospective quasi-experimental two-group design	Usual home care rehabilitation service specially trained in falls identification and prevention (Safe Strides)	Usual home care rehabilitation service	Mean duration in intervention group was 52.6 days	Nurses PTs OTs	3902 (2121/1781)	Not specifically reported	Targeted exercise programs focused on improving mobility and safety in the home were mentioned in discussion section	No	No
Winkel et al, ⁴³ 2015, Denmark	Non-randomized pilot study	Reablement	(No comparison)	12 weeks	Home carer OT	91	The role of the home carer was to verbally and physically support and motivate the participant to perform the ADL tasks	Not mentioned	No	No
Tinetti et al, ³⁹ 2002, US	Controlled clinical trial	Restorative care	Usual home care	3 months	Nurses PTs OTs Home health staff	1382 (691,691)	Not reported	The treatment plan included various combinations of exercises and training (not further elaborated, refers to Baker 2001)	No	No

Tinetti et al, ⁴⁰ 2012, US	Quasi-experimental; matched and unmatched	Restorative care	Usual home care	Mean duration 20.3 days \pm 14.8 days	Nurses PTs OTs Home health staff	770 (410/360)	Treatment plans targeted physical impairments and tasks of daily living. Included training and counseling of participant, family and caregivers (content of training not specified)	Treatment plan included various combinations of exercise (Refers to Baker 2001 for further description of intervention)	No	No
Langeland et al, ³⁷ 2019, Norway	Clinical controlled trial in 36 municipalities	Reablement	Standard care	Maximum 10 weeks; mean 5.7 weeks	OTs PTs Nurses Auxiliary nurses Home helpers	849 (707/121)	Intensive attention was given to encourage participation and stimulate daily training for the participants, including performing their daily tasks themselves.	Exercise programs such as performing exercises to improve strength, balance, or fine motor skills. The exercises were incorporated into daily routines and the participants were encouraged to train on their own.	No	SPPB
Slater et al, ⁴² 2018, UK	A retrospective cohort design	Reablement	No comparison	6 weeks*	OTs Healthcare assistants	416	Not reported	Not reported	No	No
Beresford et al, ⁴⁴ 2019, UK	Prospective cohort study	Three different reablement services	No comparison	Planned duration was typically 6 weeks, average duration was 3.9 weeks	OTs Healthcare assistants	186	Not reported	Not reported	No	No

Note: *Information from personal contact with author.

Abbreviations: PA, physical activity; OT, occupational therapist; PT, physiotherapist; RN, registered nurse; TUG, timed up and go; RCT, randomized controlled trial; ADL, activities of daily living; SPPB, short physical performance battery.

Table 2 Other Studies Providing Information of PA Experiences and PA Characteristics

Author	Aim	Method	Duration of Intervention	HCPs Involved	Informants	PA Characteristics	PA Experiences
Perspectives of older adults							
Burton et al, ⁴⁶ 2013, Australia	To identify the motivators and barriers to being physically active for older people receiving either restorative or “usual” home care services	Cross-sectional mixed method study using questionnaire and interviews	Minimum 4 weeks, generally 6–12 weeks*	RNs OTs PTs Aides*	Questionnaire: 506 Older adults Interviews: 20 older adults	Not reported	Facilitators/barriers for PA among previous reablement receivers are reported
Hjelle et al, ⁷³ 2017, Norway	To describe older adults experience of reablement	Qualitative Interviews (part of larger research program; Tuntland 2015)	Max 3 months	OT PT Nurses Auxiliary nurses Assistants/ students Social educator	8 older adults	Same as Tuntland 2015	Own will-power and responsibility is considered important. Encouragement and motivation from HCPs Home environment stimulated to activity Understanding of PA-related terms
Wilde et al, ⁷⁷ 2012, UK	Not clearly stated, but the title informs that the perceptions and experience of users of home-care reablement services are in focus	Interviews	Normally up to 6 weeks, with some flexibility*	Homecare staff with additional training. OTs regarded as essential members of the team*	34 service users 10 carers	Focuses on increasing service users ability to perform tasks such as getting up, washing, bathing, moving around the home and other daily living activities such as preparing drinks and light meals	Expressed frustration at lack of professional expertise to improve/ maintain outdoor mobility
Moe & Brinchmann, ⁷⁵ 2016, Norway	To generate a grounded theory of service users' and their caregivers' experiences of reablement	Grounded theory; focus groups, interviews and observation	Average duration of 6 weeks, maximal duration of 6 months*	Nurse OTs PTs Nurse assistants	17 services users, 10 carers	Includes doing repetitive practice of activities of daily life at home and in the neighborhood. Exercises included based on a detailed screening that identifies activity goals and functional impairments, with a focus on physical strengthening	Values/knowledge of PA are considered. Physical strengthening could boost participation in other activities. Experiences of insecurity for injury and overload. Self-confidence for PA was build during the reablement. Encouragement and motivation from HCPs was important. Reducing environmental barriers (indoors/outdoors)

(Continued)

Table 2 (Continued).

Author	Aim	Method	Duration of Intervention	HCPs Involved	Informants	PA Characteristics	PA Experiences
Tuntland et al, ⁵¹ 2019, Norway	To explore which occupations/ activities older people with functional decline find important to improve, which of these they prioritize as their rehabilitation goals, and what factors are associated with these priorities	A cross-sectional study based on data from a nationwide trial (Langeland 2019)	Mean 5.7 weeks (majority between 4 and 6 weeks)	OTs PTs Nurses Auxiliary nurse Home helpers	738 reablement receivers	Same as Langeland 2019	Goals related to functional mobility was most often prioritized, followed by goals related to personal care and household activities
Whitehead et al, ⁴⁸ 2018, UK	To provide a detailed description of the content of the occupational therapy intervention that was provided in the OTHERS trial, and to evaluate whether the intervention was acceptable to the participants who received it	Feasibility/ evaluation study (Part of a feasibility RCT); questionnaire and interviews	Median length of reablement episode was 56 days (range: 20–126 days)	OT Social care reablement workers	Interviews: 5 older adults Questionnaire: 8 older adults	Practicing ADL activities was included in intervention	Outdoor mobility goals were difficult to reach due to fluctuations of health condition or weather
Magne et al, ⁷⁸ 2020, Norway	To describe how older adults engage in daily activities within the context of receiving reablement and to explore participation in daily activities	Interviews	6 weeks or less, with some exceptions*	OTs PTs Homecare workers	10 Older adults.	Not reported	Describes and explores older adults' experiences of engaging in daily activities and exercises when receiving reablement
Perspectives of HCPs							
Hjelle et al, ⁶² 2018, Norway	To explore and describe the roles of interdisciplinary teams in reablement services in a Norwegian setting	Focus groups + interviews	Max 3 months in the rural setting, 4 weeks duration in the city	OTs PTs Social educators Nurses Auxiliary nurses Assistants	27 HCPs (PTs, OTs, Nurses, Auxiliary nurses)	Same as Tuntland 2015	HCPs considered the reablement organization to be beneficial for reaching more users

(Continued)

Table 2 (Continued).

Author	Aim	Method	Duration of Intervention	HCPs Involved	Informants	PA Characteristics	PA Experiences
Jakobsen et al, ⁶⁴ 2018, Norway	To describe HCPs perspectives of next of kin in the context of reablement	Focus groups	Often 4–6 weeks	PTs OTs RNs Social educators Other employees of the home care services	49 HCPs (RNs, Health workers, OTs, students, PTs, Social educators)	HCPs assisted the older adults with practicing everyday activities and an individual physical training program	Values/knowledge of PA are considered. Relatives as a facilitator/barrier for PA.
Meldgaard Hansen, ⁶⁵ 2016, Denmark	To analyze and discuss how the bodywork of homecare develops and is framed as clean, non-dirty work in the context of rehabilitative homecare	Ethnographic fieldwork	Average of 8 weeks in one unit, not specified in the other unit*	PTs OTs Nurses Social and healthcare workers	Two homecare units; 30 interviews with homecare workers, managers and administrators, shadow observations of 20 homecare workers	Not reported	HCPs experienced transformation of roles
Eliassen et al, ⁵⁸ 2018, Norway	To explore how physiotherapy practice is performed in reablement settings and the content of the service provided to reablement users	Field study	4–6 weeks (with some exceptions)*	PTs OTs Nurses Allied health personnel*	7 PTs and 7 allied health personnel (+ 7 clients)	Daily activities were included in reablement plans and could involve getting dressed, showering, and walking to the grocery store. Exercises were provided in all teams, either as mainly standardized exercises or individual adapted exercises. The exercises mainly targeted balance, leg strength, and gait endurance	Experienced beneficial organization for reaching more users. Competencies of allied health personnel was considered an important factor. Simple exercises were considered beneficial
Eliassen et al, ⁵⁷ 2018, Norway	To explore how the allied health personnel follow-up instructions and supervision by PTs in reablement	Field study	4–6 weeks (with some exceptions)*	PTs OTs Nurses Allied health personnel*	7 PTs and 7 allied health personnel (+ 7 clients)	Same as Eliassen 2018a	Competencies of allied health personnel was considered an important factor. Individually targeted exercises were preferred in some teams

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Table 2 (Continued).

Author	Aim	Method	Duration of Intervention	HCPs Involved	Informants	PA Characteristics	PA Experiences
Eliassen et al, ⁵⁹ 2018, Norway	To explore the content of PTs' supervision of home trainers in reablement teams	Field study	4–6 weeks (with some exceptions) *	PTs OTs Nurses Allied health personnel*	7 PTs and 7 allied health personnel (+ 7 clients)	Same as Eliassen 2018a	Competencies of allied health personnel was considered an important factor
Eliassen et al, ⁷⁰ 2020, Norway	To investigate and discuss how PTs on reablement teams plan and adapt training interventions to enhance users' functional abilities	Field study	4–6 weeks (with some exceptions) *	PTs OTs Nurses Allied health personnel*	7 PTs and 7 allied health personnel (+ 7 clients)	Identified three main categories of interventions: (i) exercise-based training, (ii) activity-based training, or (iii) a combination of both exercise and activity-based training	Not reported
Bodker et al, ⁸ 2019, Denmark	To explore how transitioning from compensatory care to reablement care is not merely a practical process, but also a deeply normative one	Ethnographic field work	8 weeks	OTs RNs PTs Allied health personnel	One municipality, involving 31 older people (of which 8 received reablement) Interviews with 13 HCPs	Individualized reablement program includes reablement training. Allied health personnel (upon instruction by health professionals) works to re-enable the older person to manage ADLs	Experienced transformation of roles and mindsets Values/knowledge of PA influenced practice
Baker et al, ⁴⁹ 2001, USA	To describe the development of a restorative model of home care designed to integrate medical treatments for acute conditions with personal care and rehabilitation for chronic disabilities in order to improve older adults' functional outcomes	Description of design and implementation of a restorative care model	Mean duration of the Restorative care was 24.8 days*	Nurses PTs OT Allied health personnel	Model development within a branch of a homecare agency. Work group included two researchers (RN, PT), two RNs, 2 PTs, two allied health personnel. Staff and six older adults participated in focus groups	Supporting older adults to perform activities themselves. Help patients safely practice regaining function. Prevention of sedentary behavior. Allied health personnel were trained to help patients follow through on prescribed exercises and gait and transfer training	Competencies of allied health personnel was considered an important factor. Simple exercises were considered beneficial. Values/knowledge of PA influenced practice

(Continued)

Table 2 (Continued).

Author	Aim	Method	Duration of Intervention	HCPs Involved	Informants	PA Characteristics	PA Experiences
Burton et al, ⁴⁷ 2014, Australia	To determine whether a lifestyle and functional exercise program (LiFE) was suitable for delivery in a restorative home care service	Feasibility study; Pilot intervention study, including interviews with clients and care managers	Average 7–8 weeks	RNs OTs PTs Aides*	9 clients	Exercises incorporated into daily activities. An individually targeted Lifestyle exercise program as intervention, including strength and balance activities; a standardized exercise program as comparative intervention. Manual delivered, including guidance on how to progress exercises	Simple exercises were considered beneficial. Beneficial with written instructions
Liaanen et al, ⁶⁹ 2019, Norway	To provide knowledge regarding how home care service providers working with reablement in the home care setting describe their experiences	Focus groups, grounded theory approach	Time-limited within 6–8 weeks, with some exceptions*	OTs PTs RNs Other home care staff	25 HCPs (2 OTs, 11, RNs, 4 Health workers, 1 Specialist auxiliary nurse, 4 auxiliary nurses, 1 student nurse, 1 Trainee health worker and 1 social educator)	Not reported	HCPs experienced a shift of care focus from caring to enabling. HCPs emphasized that reablement tended to focus on activities of daily living related to personal hygiene and food preparation, but questioned a lack of focus on outdoor and social activities
Zingmark et al, ⁵³ 2020, Sweden	To explore the characteristics and differences of occupational therapy and physiotherapy in terms of focus (what the intervention was aimed to improve), content (what actions were implemented) and duration within the context of reablement in Swedish municipalities	Surveys	In most cases the duration was within a period of 6 weeks	OTs PTs home care staff Collaboration with other professionals, eg, district nurses, social workers, managers	1393 OTs 1005 PTs	OTs focused mostly on activities such as walking indoors and self-care. PTs focused mainly on walking indoors and body function	Not reported

(Continued)

Table 2 (Continued).

Author	Aim	Method	Duration of Intervention	HCPs Involved	Informants	PA Characteristics	PA Experiences
Perspectives of family members							
Hjelle et al, ⁴⁷ 2017, Norway	To explore and describe how family members experience participation in the reablement process	Qualitative; Interviews (part of larger research program; Tuntland 2015)	Max 3 months	OT PT Nurses Allied health personnel Social educator	Six family members (spouse, child or other kinship)	Same as Tuntland 2015	Wanted information about how to support for PA. Some relatives missed follow-ups
Jakobsen et al, ⁵¹ 2019, Norway	To identify how adult children perceive the collaboration between older parents, family members, and HCPs in reablement services	In-depth interviews	4–6 weeks	PTs OTs RNs Allied health personnel	Eight daughters, six sons and a daughter-in-law of older adults receiving reablement	Not reported	Some family members wanted information about how to support for PA. Some family members found this responsibility problematic. Difficult to facilitate PA as a relative

Note: *Information from personal contact with author.

Abbreviations: PA, physical activity; OT, occupational therapist; PT, physiotherapist; RN, registered nurses; ADL, activities of daily living.

activities, physical training, being active, or enhancing active engagement or independence in daily activities. Also, broader terms such as rehabilitation, occupational therapy, physiotherapy, or reablement intervention were used in contexts in which it was likely that some degree of PA was involved.

Encouragement of active engagement and practicing/training ADL-tasks were explicitly reported as part of the reablement intervention in 10 of 15 intervention studies.^{26–31,33,34,36,39} These activities were related to the older adults' individual goals for reablement and could include activities such as indoor or outdoor mobility, dressing, bathing, kitchen activities, household activities, and social/leisure activities. However, in most studies it was not possible to capture if and to what degree/intensity the activity training involved PA. Only one (American) study mentioned sedentary behavior, and explicitly mentioned that the interventions were (among other aims) aimed at reducing sedentary behavior among participants.⁴⁵

Characteristics of Exercise Interventions

Exercise interventions were reported to be included in 10 of the 15 intervention studies. Of these, seven studies reported only overall aims/characteristics of the exercises,

such as “exercise programs targeting strength, balance or endurance”.^{27,28,32,34–37} One Australian intervention study,²⁶ two Norwegian intervention studies including referrals to their study protocols,^{29,33,77,78} one Swedish quantitative study,⁴⁹ and also one Norwegian field study (including four publications)^{53–55,66} reported additional characteristics of exercise interventions provided through reablement. Two different overall exercise approaches were described in these studies, including i) standardized exercise programs^{26,54} and ii) individually targeted/adapted exercises.^{26,29,33}

Burton et al²⁶ was the only study that provided detailed descriptions of PA and exercise interventions incorporated in the reablement intervention. The aim of that study was to compare a lifestyle exercise program (LiFE) with a standardized structured exercise program in an Australian reablement setting.^{26,41} The LiFE program was aimed at improving balance, increasing strength, and preventing falls by embedding exercises into everyday activities. The program included 18 different exercises/tasks (eg, knee bends, stair walking, tandem stand or walking, one leg stand; these were further specified in the article) that were incorporated into daily activities.

The exercises were to be performed every day and did not require additional time. The control intervention of this study was a structured exercise program, which had been part of the restorative care services for years. The structured exercise program included eight prespecified balance and strength exercises (eg, sit to stand, stand and reach, toe taps) that the participants were asked to do in five repetitions three times a day (approximately 15–20 minutes per day).

In the two Norwegian intervention studies by Tuntland et al^{29,77} and Langeland et al,^{33,77,78} it was described that daily training in activities was part of the general features of reablement, while exercise programs were recommended as individual features to improve strength, balance, or fine motor skills. In the studies by Eliassen et al^{53–55}, they explored different perspectives of physiotherapy practice and supervision in reablement in Norwegian municipalities, and found that exercises were provided in all observed cases and that reablement plans contained elements of both exercises and daily activities. Though, while some of the teams mainly emphasized standardized exercises, other teams put more emphasis on daily activities and in some teams both exercises and practicing daily activities were integrated in their reablement approach.^{53,66} In a Swedish quantitative study by Zingmark et al,⁴⁹ that investigated reablement intervention characteristics reported by 1395 OTs and 1006 PTs, they found that OTs mostly focused on activities such as walking indoors and self-care, while PTs mostly focused on walking indoors and activities aimed at improving body function (ie, strength, balance, range of motion). Activities related to walking outdoors were prioritized by OTs in 24% of reported cases, and by PTs in 38% of reported cases.⁴⁹

The frequency for follow-up of exercises by HCPs was different between studies. Burton et al²⁶ described that health professionals provided an average of three visits to participants, and that the participants were instructed to do the exercises unsupervised. At the visits in that study, the health professionals described the different exercises, discussed with the participants how they could incorporate the exercises into their daily routines (for the LiFE program), and provided support and encouragement for doing the exercises as well as other areas of their reablement. Tuntland et al²⁹ and Langeland et al³³ reported more frequent visits and described that HCPs would be present during daily training to build confidence, relearn skills, and stimulate the participant in self-management and self-training. They also reported that the participants would be encouraged to perform exercise programs on their own.

The duration of the exercise interventions in Burton et al²⁶ was 8 weeks (with care manager assistance), while Langeland et al³³ reported a maximum of 10 weeks duration (average 5.7 weeks) and Tuntland et al²⁹ a maximum of 3 months (with an average of 10 weeks) duration of the reablement intervention. Some of the included studies reported that written and/or illustrative manuals of the exercises/training was provided.^{26,29,43,54} None of the studies reported using equipment for PA/Exercise. No studies reported any intensity levels of physical activity interventions or exercises.

Approaches Used to Target and Progress PA Interventions According to Individual Needs

In some of the studies, it was reported that exercises were provided to reablement users if they had an individual need for this.^{26,29} However, there was little information about how the individual needs for exercises or PA were assessed. In the LiFE RCT study by Burton et al,²⁶ only older adults that had been prescribed an exercise intervention by their care manager (health professionals, including PTs, OTs, or RNs) were included in the study. Of the entire group receiving reablement, only 5.4% met the eligibility criteria of the study; one of which included that they had been referred to an exercise program. This could indicate that only a minority of reablement receivers in that setting were considered to benefit from participating in an exercise program. In a questionnaire study undertaken in the same state of Australia as the LiFE RCT, 30% of reablement clients recalled being given an activity program, and a third of them reported having been encouraged to be more physically active.⁴⁶

Several of the studies reported that exercises were progressed and adapted during the reablement period according to the older adults' development of function.^{26,28,31,43,53} In the LiFE program and the structured exercise program in the study by Burton et al,²⁶ progression of exercises was reported to be included, but it was not described how the need for progression was assessed. In the structured exercise program, it was reported that the participants were to progress to level two exercises on the back of the exercise sheet. In the RCT study by Hattori et al,³¹ rehabilitation specialists reviewed participants' goals in every module, in order to monitor their progress, assess their physical activities and training, and encourage behavioral changes, using an assessment sheet for self-management. In the field study by Eliassen et al,^{53–55} the researchers observed that the

characteristics of the targeting processes of the exercises were mainly divided into two groups; i) standardized approaches and ii) individually tailored approaches. In the standardized approaches, allied health personnel conducted training sessions based on standardized exercise programs. In these cases the reablement plan (including the exercises) was provided by the PTs, and the allied health personnel made minimal adjustments to this. In the second group, Individually tailored approaches targeting quality of movement, the exercises were individually targeted based on extended examinations and assessments by PTs, including functional analysis regarding movement and structure of muscles and joints, in addition to standardized physical performance tests. In these teams, the allied health personnel were instructed about movement quality, however it was described that only a few of them were able to pay attention to the small details of the instructions.⁵⁴ Similar to this second approach, Moe and Brinchmann⁷¹ reported from another Norwegian field study that exercises (and other therapeutic activities) were based on a detailed screening that identified activity goals and functional impairments, as well as other factors contributing to functional loss such as pain, malnutrition, and medication use. Several of the studies described that the role of the health professionals was to be a consultant and/or advisor, including developing and adjusting a rehabilitation plan and supervising allied health personnel. The allied health personnel were then responsible for following up on the training, including, eg, encouraging, supporting, and ensuring security when the older adult performed everyday activities and/or exercises.^{53,54,58,62,66}

Compliance of PA Recommendations

Burton et al²⁶ was the only study that had assessed compliance with exercises during the intervention period, by using an exercise adherence diary. They found that participants undertook exercises on average 4.91-times a week (in the LiFE group) and 4.42-times a week (in the structured exercise group). In the 6-month follow-up study it was reported that the participants in both groups still undertook exercises, though a little less often (average of 3.45 times per week).⁴¹

Q2: Experiences and Barriers for PA Older Adults' Perspectives

Seven qualitative studies explored older adults' experiences of participating in reablement,⁶⁷⁻⁷³ of which four qualitative studies (three Norwegian and one from the

UK)^{69,71-73} and also one mixed method study⁴⁴ touched upon themes related to PA, which are summarized in the following. Additionally, one Australian mixed-method study investigated motivators and barriers to being physically active for older people (70+) that previously had received either reablement or usual home care services,⁴² and one Norwegian quantitative study explored which occupations and rehabilitation goals older people prioritized in a reablement setting.⁴⁷

In the studies by Moe and Brinchmann⁷¹ and Magne and Vik,⁷³ the older adults described how they experienced physical strengthening to be essential for their progress and that physical strengthening also led to increased participation in other activities in their daily life. Some older adults reported that they felt insecure when participating in activities, due to fear of injuries or fear of falling,^{71,73} and that the support from the reablement team helped them gain a sense of security and confidence when performing daily activities.^{71,73} Similarly, Hjelle et al⁶⁹ found that the older adults' willpower to engage in exercises and everyday activities evolved during their recovery. The older adults' determination and willpower was considered important for their engagement in exercise and performing everyday activities.⁶⁹ However, some older adults found the exercises to be too easy and not inspiring.⁷³

Encouragement, support, supervision, and a push by reablement staff was considered a motivational factor for increasing PA.^{69,71} The support from the reablement staff stimulated some older adults to do exercises/activities on their own and also to continue PA after the reablement period, while others were only motivated when the staff were encouraging them.⁶⁹ Older adults reported that they preferred to plan their own day themselves, including deciding when to perform training and activities, and that being in their home environment stimulated them to be independent and take part in everyday activities.⁶⁹ Additionally, the older adults' social network was considered an important factor to enable active living and participating in daily activities.⁷³ Organizing the home to make it safer and easier to maneuver inside, as well as reducing barriers for outside activities were also reported as important for activity performance.⁷¹

Some of the older adults expressed that they considered exercising or training to be something different than practicing activities.⁶⁹ They considered training in reablement as doing physical exercises in order to improve physical strength, balance, or range of motion, but they did not consider ADL as training. In a study from the UK by

Wilde and Glendinning,⁷² service users expressed frustration at the limited access to wider sources of professional expertise (social workers and OTs were involved in that setting), particularly with the aim of maintaining or improving their ability to walk outdoors and manage stairs so that they could participate in social activities. Likewise, another UK study reported that outdoor mobility goals were difficult to reach due to fluctuations in the users' health or weather conditions.⁴⁴

Tuntland et al²⁹ investigated what types of activities or tasks that older adults that had participated in an Norwegian RCT reported as difficult to perform, and which activities they prioritized as rehabilitation goals.⁴⁷ Functional mobility goals, such as going for a walk, walking up stairs, transferring or outdoor mobility were most frequently prioritized (35% of prioritized sub-areas), followed by personal care activities, such as taking a shower or dress/undress (18% of prioritized sub-areas) and household activities, such as preparing food or cleaning/vacuuming the house (15% of prioritized sub-areas). They also reported that some of the responses remained unclassified (3.5%) because they were mainly impairment-based goals such as improving balance, strength, or memory, rather than activity-based goals.

Burton et al⁴² found in their mixed-method study that health and fitness (reported by 56.3% of reablement receivers) and well-being (55.3%) were the top two reasons participants gave for being active, followed by enjoyment (48.4%), social/family (44.7%), transport (20%), weight loss (18.6%), walking the dog (11.6%), and competition/challenge (7%). The highest ranked barriers were ongoing injury/illness (reported by 45.6% of reablement receivers) and feeling too old (41.4%), followed by temporary injury/illness (17.7%), nobody to be physically active with (12.1%), lack of transport (11.6%), cost (7%), nowhere to be physically active (4.7%), not interested (3.7%), do not know how to be physically active (1.9%), and lack of time (3.7%).

HCPs' Perspectives

Eighteen qualitative studies, one feasibility study, and one implementation study investigated inquiries based on HCPs experiences or perspectives on reablement,^{43,45,50–66} but none of these specifically aimed at investigating or exploring HCPs' experiences related to PA facilitation. However, some of the studies – of which seven were Norwegian,^{53–55,58,60,65,66} two were Danish,^{51,62} one Australian,⁴³ and one from the US,⁴⁵ brought up perspectives from HCPs related to activity training or exercises, which are presented in the following.

HCPs considered the organization of tasks between health professionals and allied health personnel to be beneficial for reaching out to a larger population and for giving more intensive training.^{54,58} However, it was also reported that the competencies of the allied health personnel and the team collaboration could have an impact on the content of the training or exercises.^{45,53–55} HCPs in several of the studies noted that it was advantageous to implement simple and recognizable exercises that could easily be explained to both the allied health personnel and the older adults.^{43,45,54} It was considered beneficial to use written instructions for the exercises/training,^{43,45} and in one study they reported lower compliance among users when, eg, giving complicated verbal instructions without leaving written instructions.⁴⁵

In some reablement settings, the ability to target the exercises/training to the older adults' individual needs, including a focus on movement quality, was more emphasized than standardized exercise programs.⁵³ In these teams, a more intense collaboration between healthcare professionals (PTs in this case) and allied healthcare personnel was observed, including both formal and informal meeting-points, as well as on-going supervision and common reflection in the team. It was emphasized that allied healthcare personnel had the required competencies to follow-up individually targeted interventions, that they were capable of independent evaluations of the older adults' function and independence during the period, and also that they had sufficient competence to evaluate the need for additional therapeutic assistance.⁵³ The allied healthcare personnel in these teams expressed that it was difficult to point out what to look for, but that they learned along the way. Thus, this approach relied more on building the competencies of allied health personnel, which was reported as a limitation in other settings.^{45,54} Some HCPs suggested reablement was not sufficiently targeted towards outdoor activities, such as going to social activities or going grocery shopping.⁶⁵

The roles of the allied healthcare personnel were found to be transformed from being carers to becoming trainers, and implied a change of mindset of what it means to be a good carer.⁵¹ However, this transformation of mindset could also lead to discrepancies regarding different disciplinary views and norms related to caring and rehabilitation.⁵¹ Also, some HCPs experienced an ambivalence related to ensuring a good balance between helping and enabling the older adults to perform activities.⁶⁵ Phrases such as keeping your hands behind your back

and do not take over for the citizen were reported to be commonly repeated in a Danish reablement setting, and HCPs were reported to increasingly assume a physically passive position, including a more distanced, observational, and instructing practice.⁶²

One study investigated HCPs perspectives regarding family members of older adults in a reablement setting.⁶⁰ They found that family members were sometimes considered a resource, that could facilitate the older adult to participate in additional activities. However, the family members could also be a barrier to (physical) activity, by taking over the older adults daily activities. Several studies reported that the knowledge and values related to the benefits of PA and active aging sometimes were met with skepticism or resistance from older adults themselves, family members, HCPs, or by habitual traditions of running healthcare services.^{45,51,60,64}

Family Members' Perspectives

Three Norwegian studies had investigated family members' perspectives (including relatives, adult children, and caregivers/spouses) and their experiences with reablement^{71,74,75} and two of them touched upon some themes related to PA.^{74,75} Family members expressed that they wanted information about how to support and motivate the older adult to engage in PA.^{74,75} However, some of them expressed that taking this responsibility was problematic.⁷⁵ Some of the family members perceived that it was difficult for them, in the role as a family member, to facilitate PA, and that the older adult (their mother/father, etc.) was more likely to listen to PA advice from the reablement staff.⁷⁵ Some of the family members missed follow-ups, including motivation to train and practice to ensure that the older adults' achieved function was maintained after the reablement was finished.⁷⁴

Q3: Assessment of Physical Fitness and PA Levels

Physical Fitness

Five of the 15 intervention studies that were included (three Australian studies and two Norwegian studies) reported using at least one standardized clinical measure of physical fitness.^{26,27,29,33,34} Timed up and Go (TUG) was most frequently used ($n=4$), with the aim of measuring functional mobility.^{26,27,29,34} One study used the Short Physical Performance battery (SPPB) to measure lower extremity strength, walking speed, and static balance.³³

Specific strength assessments included Sit-to-stand one repetition and five repetitions²⁶ and Grip Strength/Dynamometer,²⁹ while specific balance assessments included Functional reach/static balance²⁶ and Tandem walk/dynamic balance.²⁶ Follow-up measures of physical fitness in the intervention studies were made at 8 weeks,²⁶ 10 weeks,³³ 3 months,^{27,29,34} 6 months,^{33,41} 9 months,²⁹ and 12 months.^{27,33,34} Eliassen et al⁵⁴ reported in their field study that SPPB was used as a standard assessment method in all of the seven included Norwegian municipalities, and that some of the municipalities also used additional tests (no further details provided) related to movement quality. Zingmark et al⁴⁹ reported variable use of standardized clinical measures of physical fitness in Swedish reablement settings, including a range of different assessment methods such as the 30s chair stand test, TUG and 10 meter walking test.

Among the included RCT-studies, the two studies that reported mobility outcomes (TUG) did not have comparable comparison interventions (one compared two different exercise interventions in reablement and the other compared reablement with standard homecare services).^{26,29} Thus, a synthesis of this evidence would not be considered adequate. Among the non-RCTs, more positive results for physical fitness outcomes were reported (for TUG and SPPB), however the design of these studies meant that the risk of bias would be too high to be included in a synthesis of outcomes. No other outcome measures related to physical fitness were comparable in the RCTs. Overall, the only significant differences related to physical fitness in an RCT study were reported by Burton et al,²⁶ who reported significantly better outcomes in balance (tandem walk) in the reablement + LiFE program compared to reablement + structured exercise program.

Physical Activity

None of the intervention studies assessed levels of PA or sedentary behavior. However, one Australian RCT reported using an exercise diary to assess adherence.²⁶ One feasibility study⁴³ used the physical activity scale for the elderly (PASE) to assess habitual PA among older adults receiving reablement in an Australian setting. They also used an accelerometer to assess energy expended over 7 days. It was, however, decided not to include accelerometer assessments in the following RCT because of poor compliance and potential for causing discomfort to some participants.⁴³

The only study that reported PA levels among older adults (that previously had received either reablement or usual care), was an Australian questionnaire study (n=506) that used the self-reported PASE questionnaire to assess and compare PA levels between participants receiving reablement and usual care.⁴⁶ They found that 77.7% of all respondents reported that they were physically active for the recommended minimum 30 minutes of moderate exercise each day, and that there were insignificant differences between groups.⁴⁶

Discussion

We conducted a systematic scoping review with the aim of mapping existing evidence of how PA strategies have been integrated and explored in reablement research and to identify knowledge gaps. We identified and mapped evidence of how PA strategies have been integrated and explored in 51 studies of reablement. The review revealed that PA recommendations, such as the WHO recommendations,⁷⁹ were rarely mentioned, and that the degree and intensity of PA or inactivity/sedentary behavior among older adults' receiving reablement has been given little attention in research.

The review showed that there was little information regarding the causes of functional decline among older adults receiving reablement. Baseline measures of physical fitness in the identified intervention studies indicated that the older adults in general had reduced physical fitness, which is likely to be part of the causes of functional decline.^{26,27,29,33,34} PA levels have been found to correlate with physical fitness among older adults in other settings,¹² but none of the identified intervention studies in this review included information about the PA levels among older adults in receipt of reablement.

Functional mobility, such as walking, stair walking, transferring, or outdoor mobility was reported as commonly prioritized goals among older adults receiving reablement.⁴⁷ These types of activities are premises for participating in a large range of daily activities, both indoor, outdoor, and social activities. It was reported that older adults participating in reablement perceived that improvements of functional mobility or physical strengthening lead to increased participation in other activities, increased self-confidence, and helped them to increase the freedom to plan their daily activities themselves.^{69,71} This may suggest that a focus on improving basic functional mobility and physical fitness is essential both for achieving the individual goals of the older adults, as well

as for increasing general activity levels and participation. However, older adults' experiences of PA in a reablement setting should be further explored.

The older adults' individual goals were reported by HCPs as crucial to their development of a reablement plan.^{50,56,59,61,64} Although facilitation of activity through practicing daily activities or enhancing participation in daily activities seem to be a central component of reablement, the degree of PA involved in these activities may vary considerably, depending on the activities involved and the functional levels of the older adult. Thus, there may be large differences to the degree of PA involved in reablement. None of the studies reported any measures of intensity of PA or exercises in the reablement interventions. This prohibits the possibility for recommending effective exercise/PA intensity levels for use in reablement. Also, there is limited evidence on the progression of exercises over a period of reablement. More evidence is required to understand what level and when progressions should be applied to gain maximum effect for older people receiving reablement. An increased focus on PA behavior may be helpful in order to improve the older adults' achievement of their goals and also for maintenance of function after reablement. It should be further explored if PA recommendations such as the ones recommended by WHO are feasible and effective in a reablement setting, and also what type of support the older adults' need in order to maintain PA and function after reablement.

Several of the included studies reported that societal expectations regarding aging and activity influenced PA facilitation in this setting, both from the older adults themselves, family members, and HCPs.^{45,51,60,64} HCPs should be aware of such existing assumptions when informing about PA. It was also reported that the older adults' motivation and confidence related to PA increased along with their experiences of PA and improvement of function.^{69,71} This is in line with findings in other settings, where older adults perceive that the value and enjoyment of being physically active are important factors for participating in PA interventions, and that positive PA experiences increase their motivation of PA.⁸⁰ Thus, the HCPs may need to adapt their motivational strategies continually during the reablement period in order to facilitate PA as part of the reablement intervention.

Although exercises often were reported as a component of reablement, the characteristics of these interventions were in general poorly reported and it was unclear how HCPs made judgments and recommendations regarding PA and exercises.

One of the priority areas of the WHO within their physical activity strategy for 2016–2025 is to improve the quality of advice on PA by HCPs to older people.¹⁸ Reablement may be a convenient setting for integrating and developing such recommendations, due to its features of being person-centered and intensive.⁸⁰ There is a need to further investigate how HCPs can facilitate PA in a reablement setting in an effective way. Based on the findings from this scoping review, we suggest that the following gaps of knowledge are important to address in future research.

Gaps of Knowledge

- To what degree is reduced physical fitness part of the causes of functional decline among older adults in receipt of reablement?
- To what degree are older adults in receipt of reablement physically active?
- How do older adults' experience PA facilitation in a reablement setting?
- What type(s) of PA recommendations and exercises are feasible and effective in a reablement setting?
- How does the context of reablement influence PA facilitation?
- What knowledge and competencies are needed by HCPs in order to facilitate PA in reablement?
- How should HCPs appropriately balance and prioritize evidence-based knowledge of PA with the person-centered focus in reablement?

Suggestions for Future Research

We suggest that future studies of reablement interventions ensure that the interventions are explicitly described, including detailed characteristics of content, intensity, duration, and delivery of the interventions. Due to the patient-centered and – to some degree – unpredictable nature of reablement interventions, we also suggest that intervention studies not only include a pre-planned description of the intervention, but also include reports or measures of the content of the interventions that was actually given throughout the intervention period. We further suggest that the research of reablement interventions pay further attention towards exploring and investigating the effectiveness of more specific components of reablement, such as PA components. This should also include exploration of older adults', HCPs', and – when appropriate – relatives' perspectives and experiences with PA in order to identify potential facilitators and barriers.

This scoping review reveals a large divergency in the delivery of reablement interventions, which is likely to be affected by many factors, such as differences in national and local healthcare policies, health professionals involved in reablement, or available resources in reablement. We suggest that – rather than seeing this divergency as a bias to reablement research – that these contextual divergencies are recognized and further explored in reablement research in order to identify facilitators and barriers for successful reablement delivery.

We also suggest that future studies include additional data of the population group related to causes of functional decline within this population, including (but not limited to) measures of physical fitness and measures of physical activity behavior. We recommend that research is aimed and designed towards identifying subgroups of people that may receive particular benefit (or lack of benefit) of reablement or of particular components of reablement. Furthermore, there is a need to point out feasible measurement instruments that are relevant to this population and can be used more consistently in order to improve comparability between studies. We suggest that specific, clinical outcome measures are used as supplementary measures in order to identify adjustable factors that may be of particular significance for improvement of function.

Finally, we suggest that further research of reablement should aim to explore what type of knowledge and competencies are needed by HCPs in order to provide effective evidence-based and person-centered reablement.

Strengths and Limitations

A strength of this scoping review was the comprehensive systematic search strategy aiming to identify a broad range of study designs related to the topic. We also followed acknowledged method recommendations for scoping reviews and did duplicate study selection and data extraction in order to raise validity.

A limitation to the study is that the eligibility criteria that we used may not have captured all types of reablement interventions, due to the variability of reablement characteristics. However, by building on a reablement definition used by one of the latest systematic reviews in the field,⁴ we aimed to capture the main essence of reablement research. Since PA in general was vaguely described and defined in the included studies, the extraction of data related to PA experiences were based on the reviewers' discretion, which can be a limitation to the reliability of the study findings. However, by pilot-

testing the data extraction forms and performing data extraction in duplicate, it was enhanced to optimize the consistency of this process. Another limitation to the study is that we did not use search strategies with other search terms than English, and we may have missed eligible studies in the other languages that we intended to include. Although the time-limitation used in the search strategy may seem a limitation to the study, our findings strengthened our anticipation that the main body of literature was published in the latest part of the last two decades. This scoping review did not consider the quality of the included studies, and thus it was not possible (or intended) to synthesize and evaluate research evidence. Rather, the intention was to identify and map the current evidence in order to identify gaps of knowledge for future research.

Conclusion

There is limited evidence of how PA is integrated in reablement, including how PA strategies are targeted to older adults' individual needs and preferences in a reablement setting. Also, there is a lack of understanding concerning the knowledge and competencies that are required by HCPs in order to facilitate PA among older adults receiving reablement. While PA levels are known to be highly related to older adults' physical fitness and function in other settings, there is limited evidence regarding how reablement influences PA levels and physical fitness. None of the reablement studies reported measures that informed (changes of) PA levels during reablement. Although some measures of physical fitness were reported, the use of measurement instruments between studies were inconsistent and it should be further considered which instruments are most appropriate in a reablement setting. Further research is needed to explore how PA should be integrated in reablement and how it should be prioritized among other intervention components included in reablement.

Abbreviations

PA, physical activity; HCP, healthcare providers; PT, physiotherapist; OT, occupational therapist; RN, registered nurse; TUG, timed up and go; SPPB, short physical performance battery; STS, sit-to-stand; PASE, Physical Activity Scale for the Elderly; RCT, randomized controlled trial.

Data Sharing Statement

All data generated or analyzed during this study are included in this published article and its [Supplementary Files 1](#) and [2](#).

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Author Contributions

HLM carried out searches (in cooperation with a librarian), did study selection, data extraction, mapping of results, and made a draft of the manuscript. CFM carried out duplicate study selection and data extraction. EB and LU were involved to solve discrepancies between reviewers. All authors contributed to data analysis, drafting, or revising the article, have agreed on the journal to which the article will be submitted, gave final approval of the version to be published, and agree to be accountable for all aspects of the work.

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